

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
3 February 2005 (03.02.2005)

PCT

(10) International Publication Number
WO 2005/009199 A3

(51) International Patent Classification⁷: **A61K 9/48, A61J 3/07**

(21) International Application Number:
PCT/IB2004/003414

(22) International Filing Date: **30 July 2004 (30.07.2004)**

(25) Filing Language: **English**

(26) Publication Language: **English**

(30) Priority Data:
60/491,157 30 July 2003 (30.07.2003) US

(71) Applicant (*for all designated States except US*): **ADAPTIV BIOPHARMA LIMITED [IE/IE]; 25/28 North Wall Quay, Dublin 1 (IE).**

(72) Inventor; and

(75) Inventor/Applicant (*for US only*): **MOODLEY, Jagathesan [IE/IE]; Rindoona Retreat Road, Westmeath, Co. Athlone (IE).**

(74) Agent: **CALLIES, Rainer; Sobisch & Callies, Odastrasse 4a, 37581 Bad Gandersheim (DE).**

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): **AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,**

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): **ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).**

Declaration under Rule 4.17:

— *of inventorship (Rule 4.17(iv)) for US only*

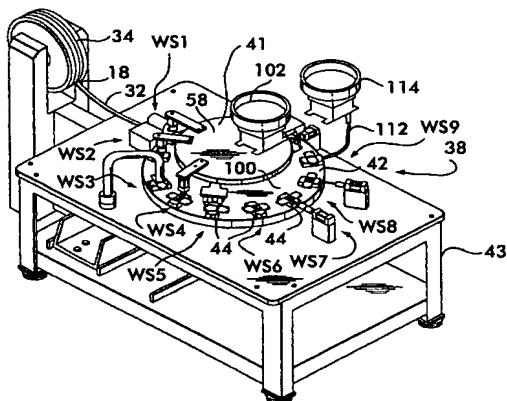
Published:

— *with international search report*
— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) Date of publication of the international search report:
14 July 2005

[Continued on next page]

(54) Title: **PROCESS AND MACHINE FOR AUTOMATED MANUFACTURE OF GASTRO-RETENTIVE CAPSULES**



(57) Abstract: An automated process and apparatus for making a gastro-retentive device (10). The method includes the steps of providing a pouch assembly having an ingredient section within a membrane; folding the membrane to form a folded pouch assembly; inserting the folded pouch assembly into a first capsule section (20a) to form a pouch/first capsule assembly, and inserting the pouch/first capsule assembly into a second capsule section (20b). The process can further include the steps of providing a strip (32) of multiple pouch assemblies (18) and cutting a single pouch assembly from the strip (32). Also provided is an apparatus (38) for carrying out the above method which includes a tooling block (44) having a passageway (62) configured for slidable movement of the pouch assembly (18) therein, and a tooling pocket (60) extending from a top surface of the tooling block to the passageway and which receives the pouch assembly. A ram (86) is provided for pushing the pouch assembly through the tooling pocket into the passageway, wherein the pouch assembly is folded and encapsulated.

WO 2005/009199 A3



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.